

Title: ADAPTIVE CONTROL FOR A REFRIGERATION SYSTEM USING
PULSE WIDTH MODULATED DUTY CYCLE SCROLL COMPRESSOR

Inventors: Hung M. Pham et al.

Atty. Ref.: 0315-000451/REK

1/16

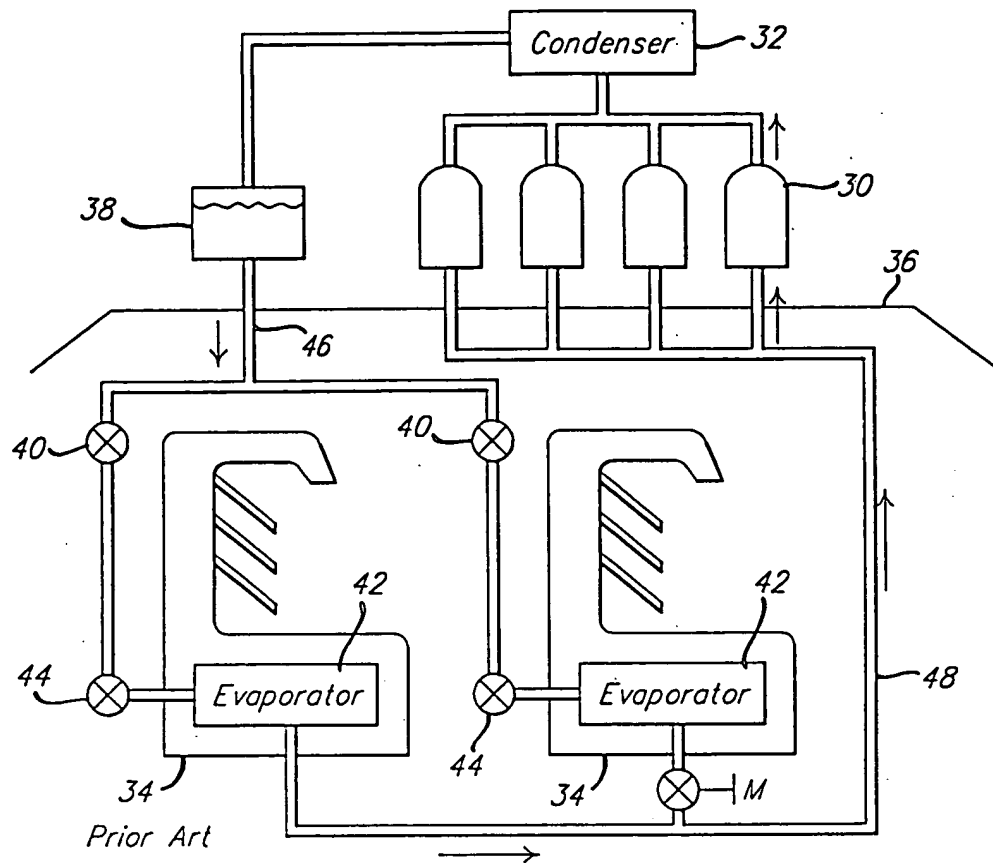


FIG. 1.

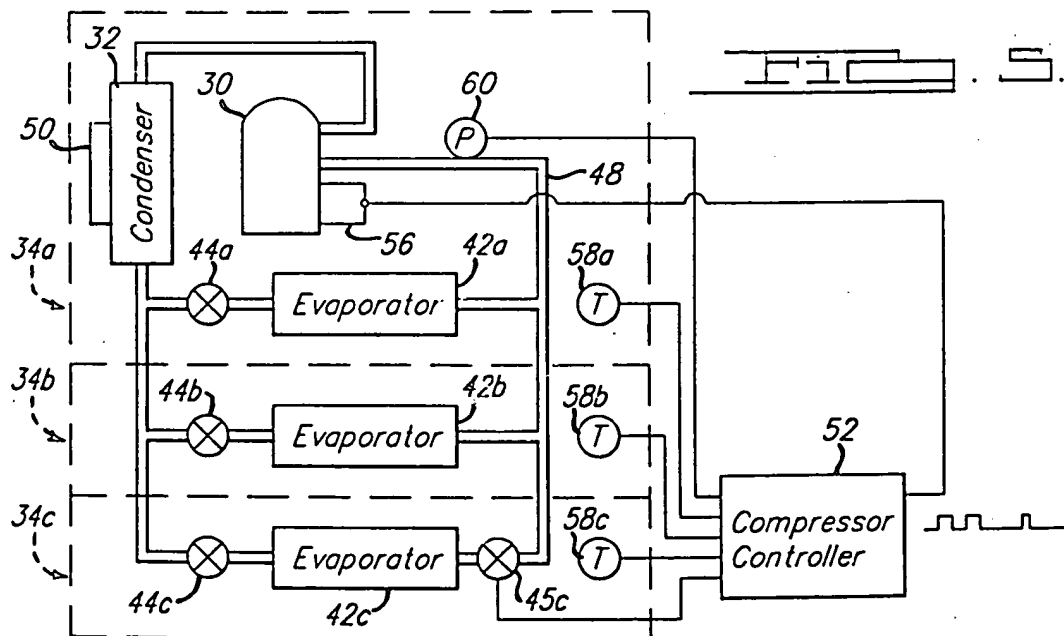


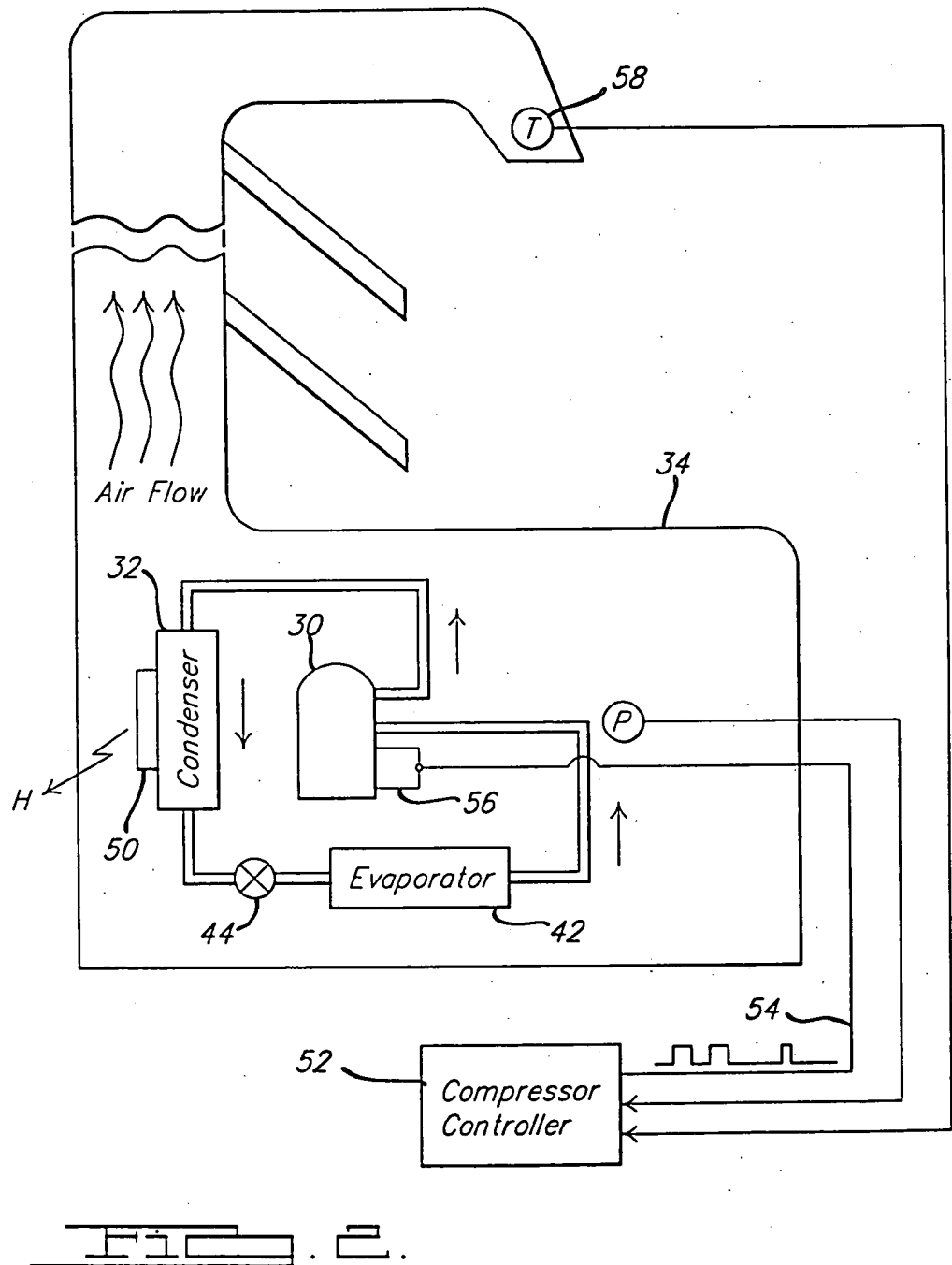
FIG. 5.

Title: ADAPTIVE CONTROL FOR A REFRIGERATION SYSTEM USING
PULSE WIDTH MODULATED DUTY CYCLE SCROLL COMPRESSOR

Inventors: Hung M. Pham et al.

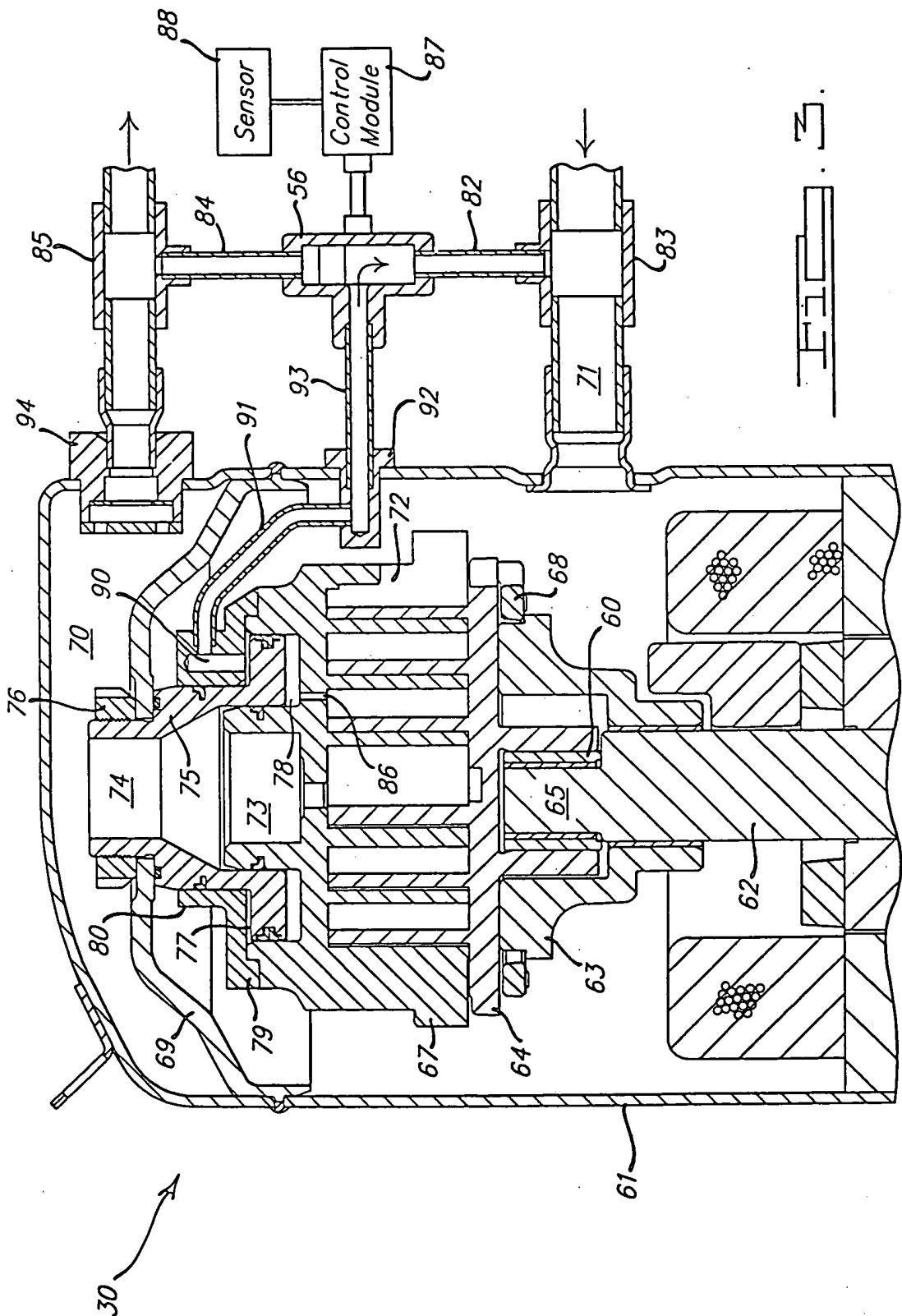
Atty. Ref.: 0315-000451/REK

2/16



Atty. Ref.: 0315-000451/REK

THE UNIVERSITY OF CHICAGO



Title: ADAPTIVE CONTROL FOR A REFRIGERATION SYSTEM USING
PULSE WIDTH MODULATED DUTY CYCLE SCROLL COMPRESSOR

Inventors: Hung M. Pham et al.

Atty. Ref.: 0315-000451/REK

4/16

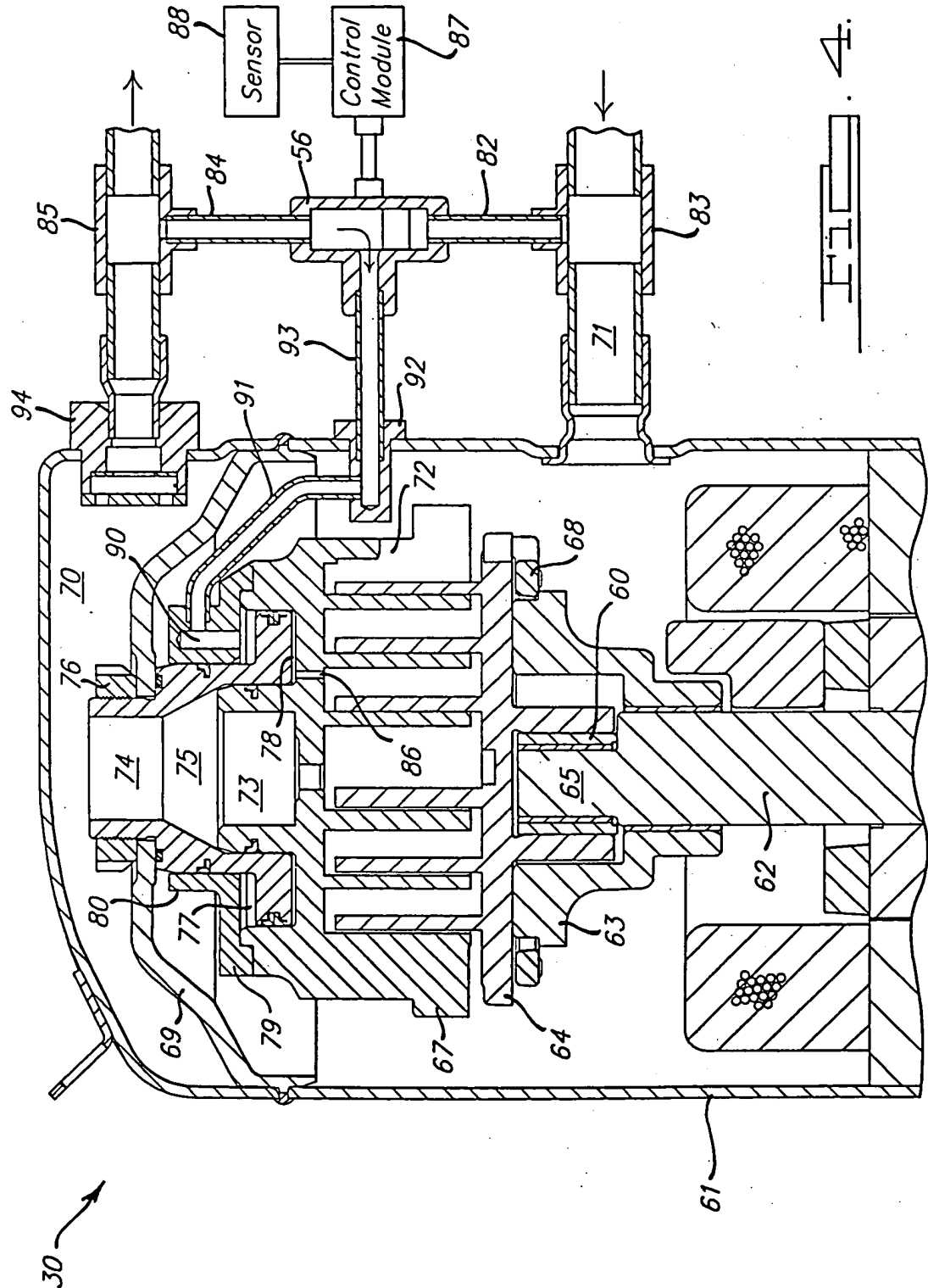


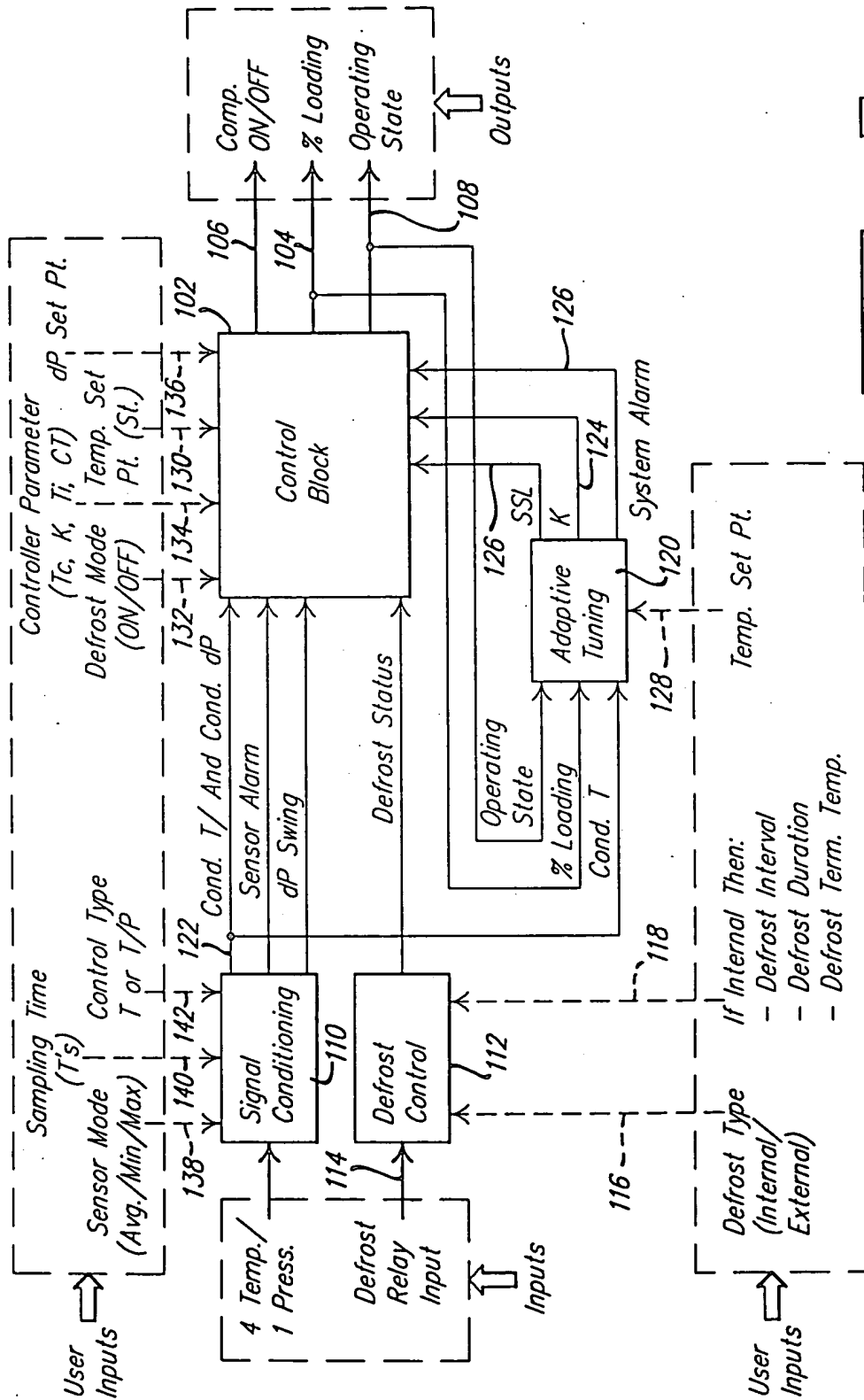
FIG. 4.

Title: ADAPTIVE CONTROL FOR A REFRIGERATION SYSTEM USING
PULSE WIDTH MODULATED DUTY CYCLE SCROLL COMPRESSOR

Inventors: Hung M. Pham et al.

Atty. Ref.: 0315-000451/REK

5/16





Title: ADAPTIVE CONTROL FOR A REFRIGERATION SYSTEM USING
PULSE WIDTH MODULATED DUTY CYCLE SCROLL COMPRESSOR

Inventors: Hung M. Pham et al.

Atty. Ref.: 0315-000451/REK

7/16

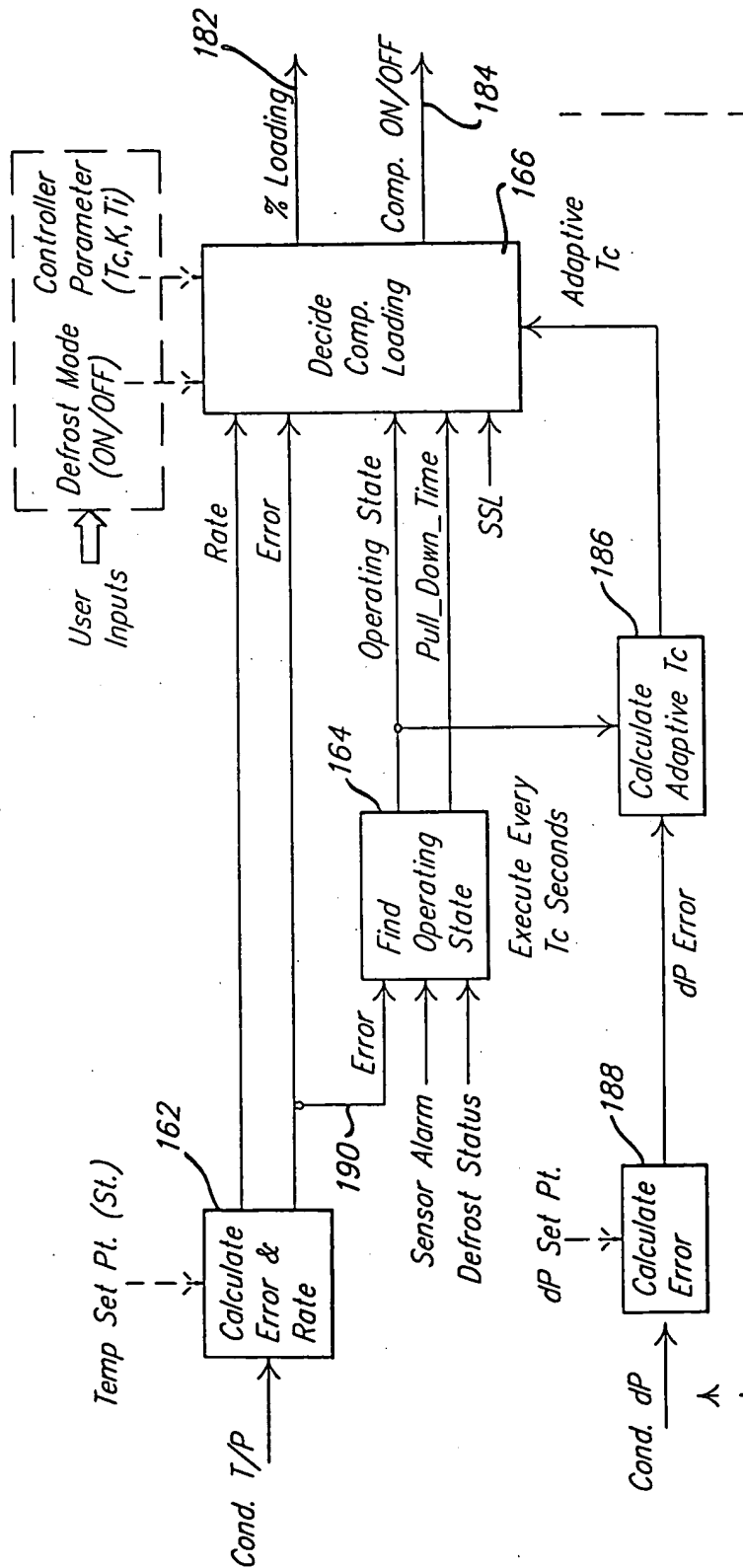


FIG. 9.

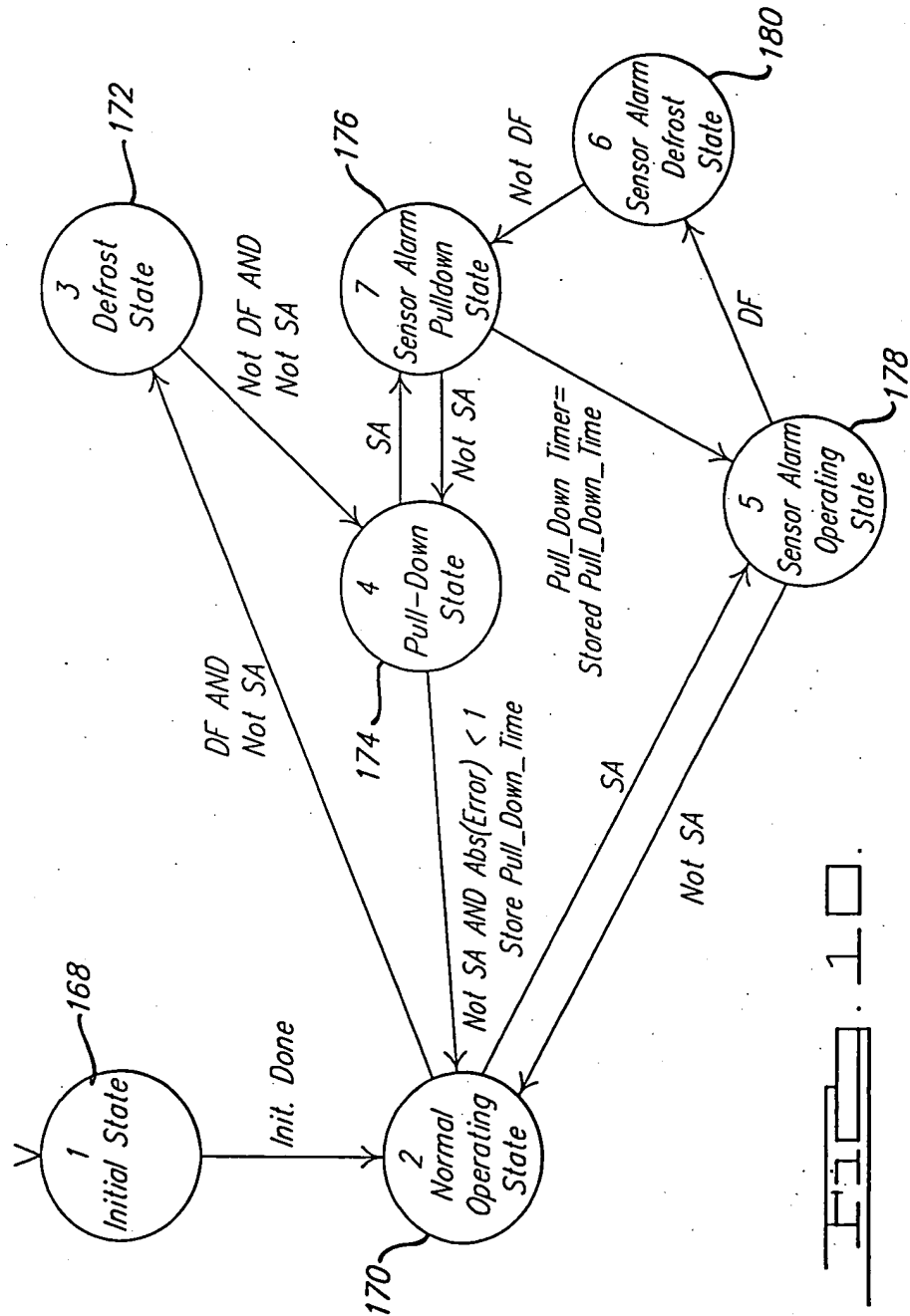


FIG. 10.

9/16

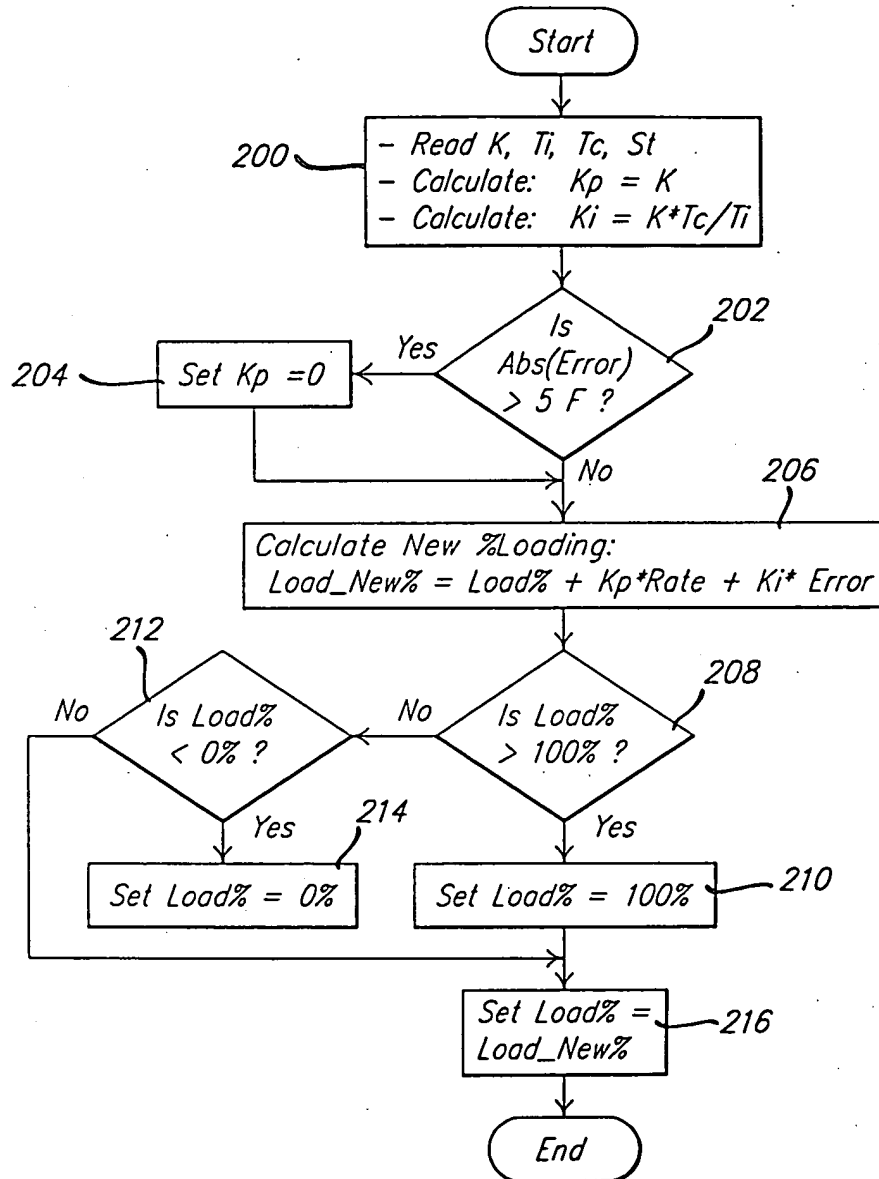


FIG. 11.

Title: ADAPTIVE CONTROL FOR A REFRIGERATION SYSTEM USING
PULSE WIDTH MODULATED DUTY CYCLE SCROLL COMPRESSOR

Inventors: Hung M. Pham et al.

Atty. Ref.: 0315-000451/REK

10/16

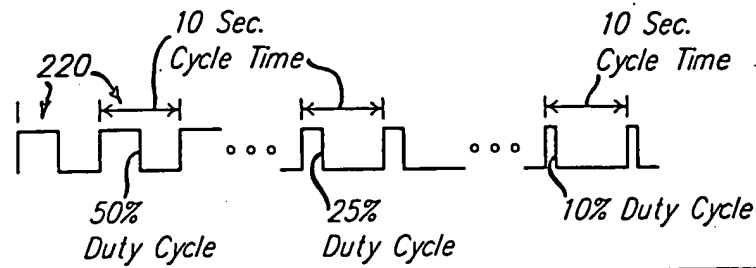


FIG. 12.

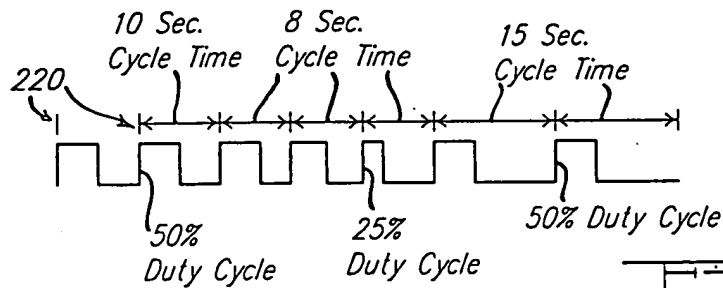


FIG. 13.

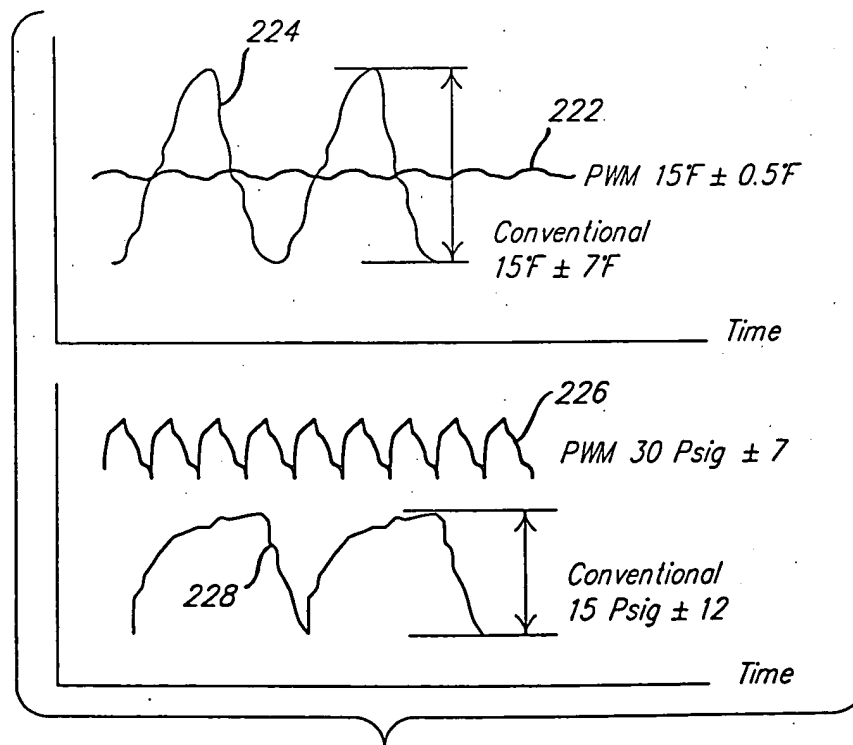


FIG. 14.

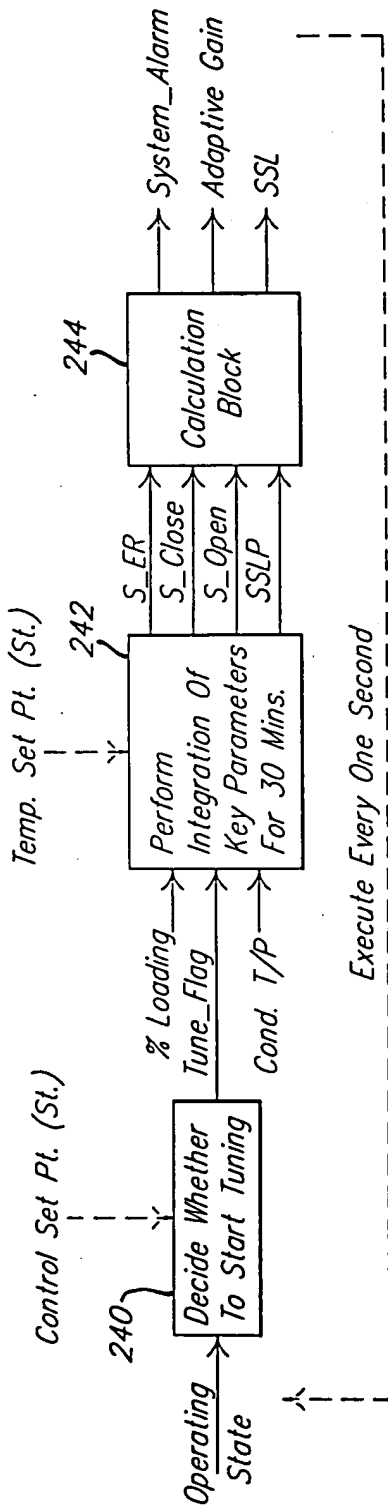


FIG. 15.

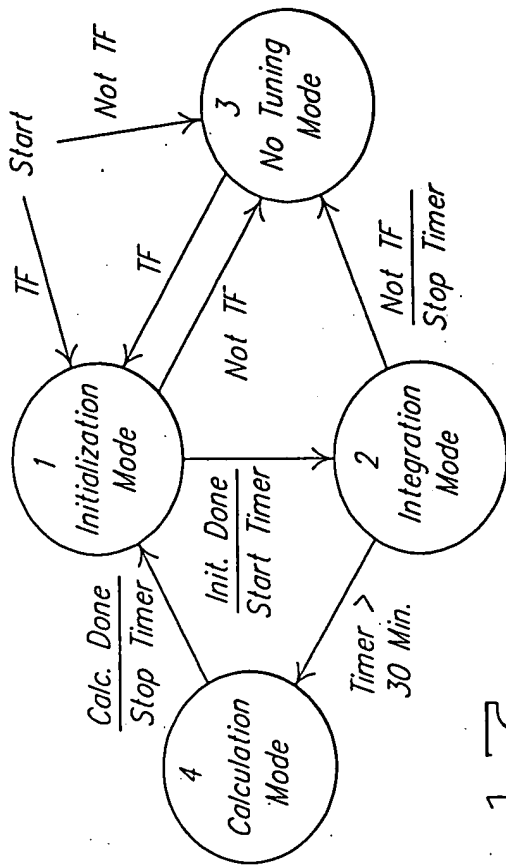


FIG. 17.

12/16

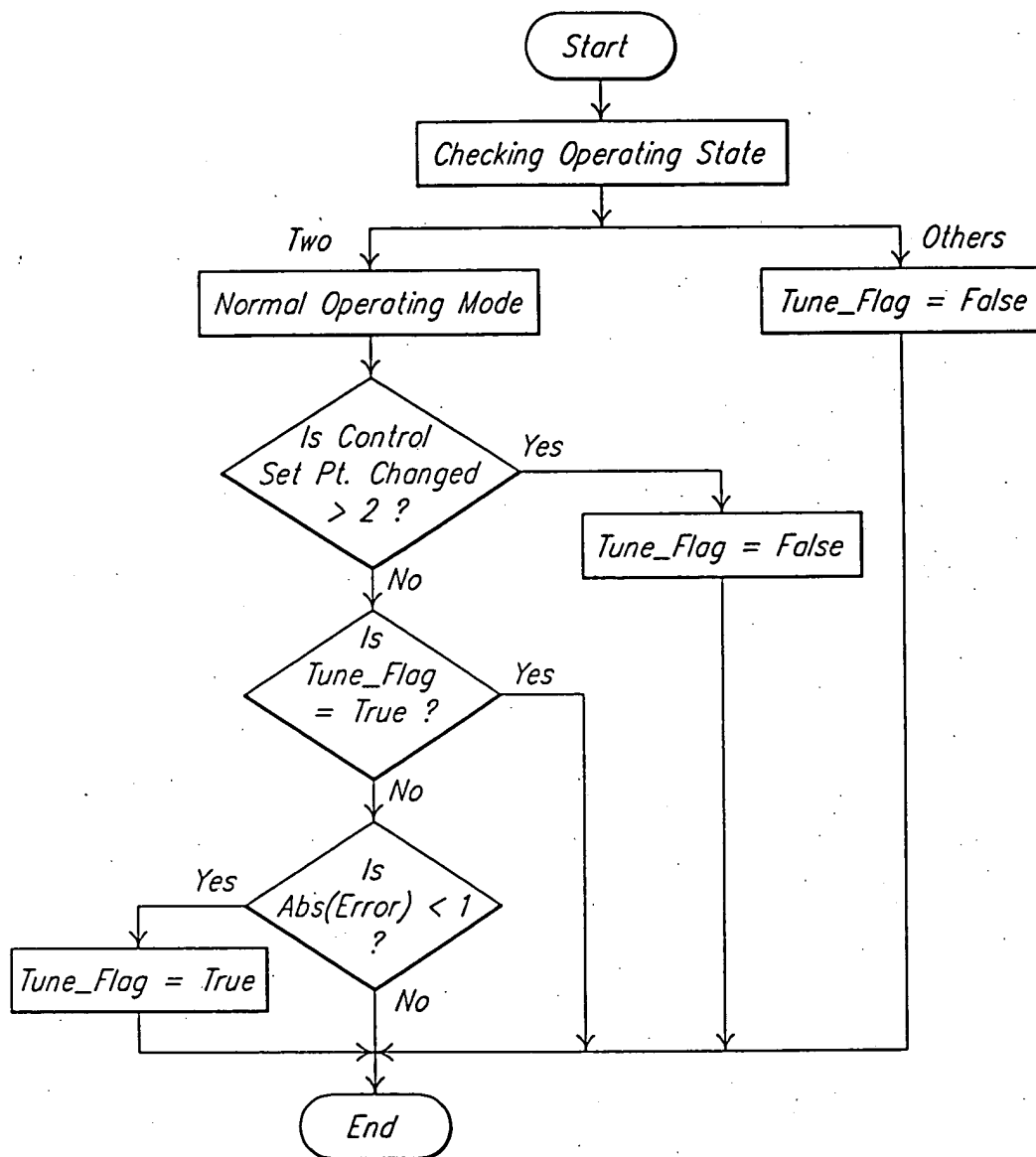


FIG. 16 A.

13/16

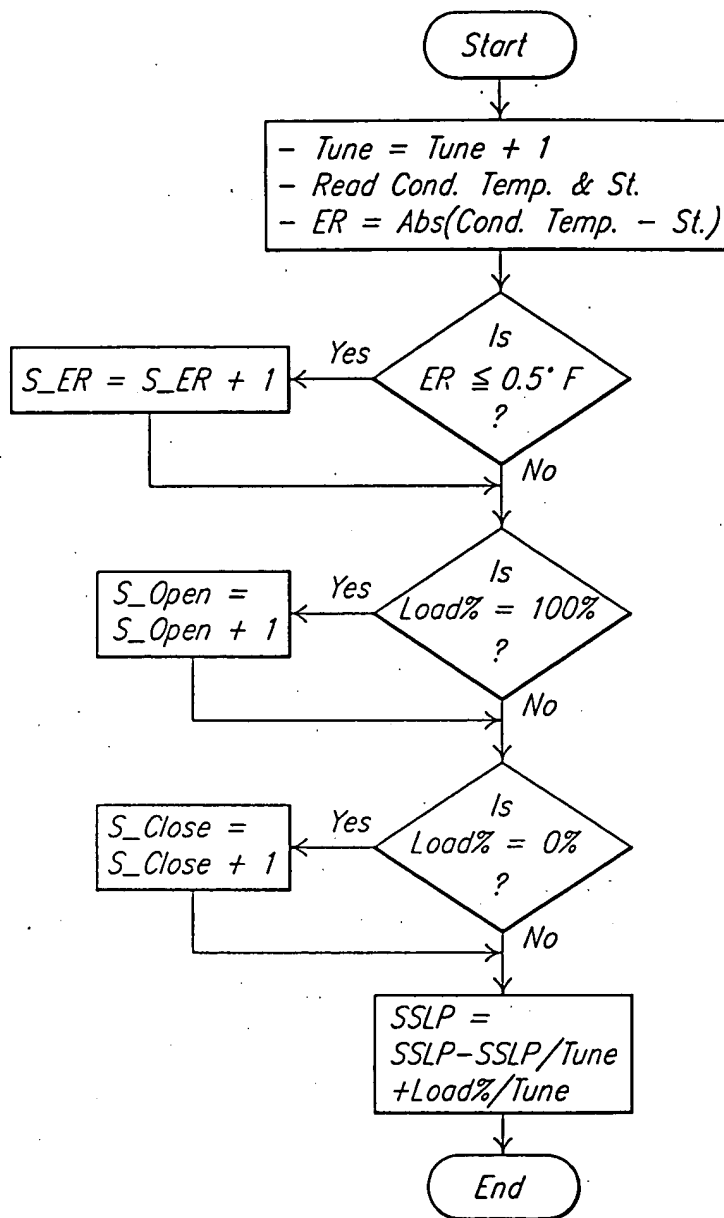


FIG. 1B.

Title: ADAPTIVE CONTROL FOR A REFRIGERATION SYSTEM USING
PULSE WIDTH MODULATED DUTY CYCLE SCROLL COMPRESSOR

Inventors: Hung M. Pham et al.

Atty. Ref.: 0315-000451/REK

14/16

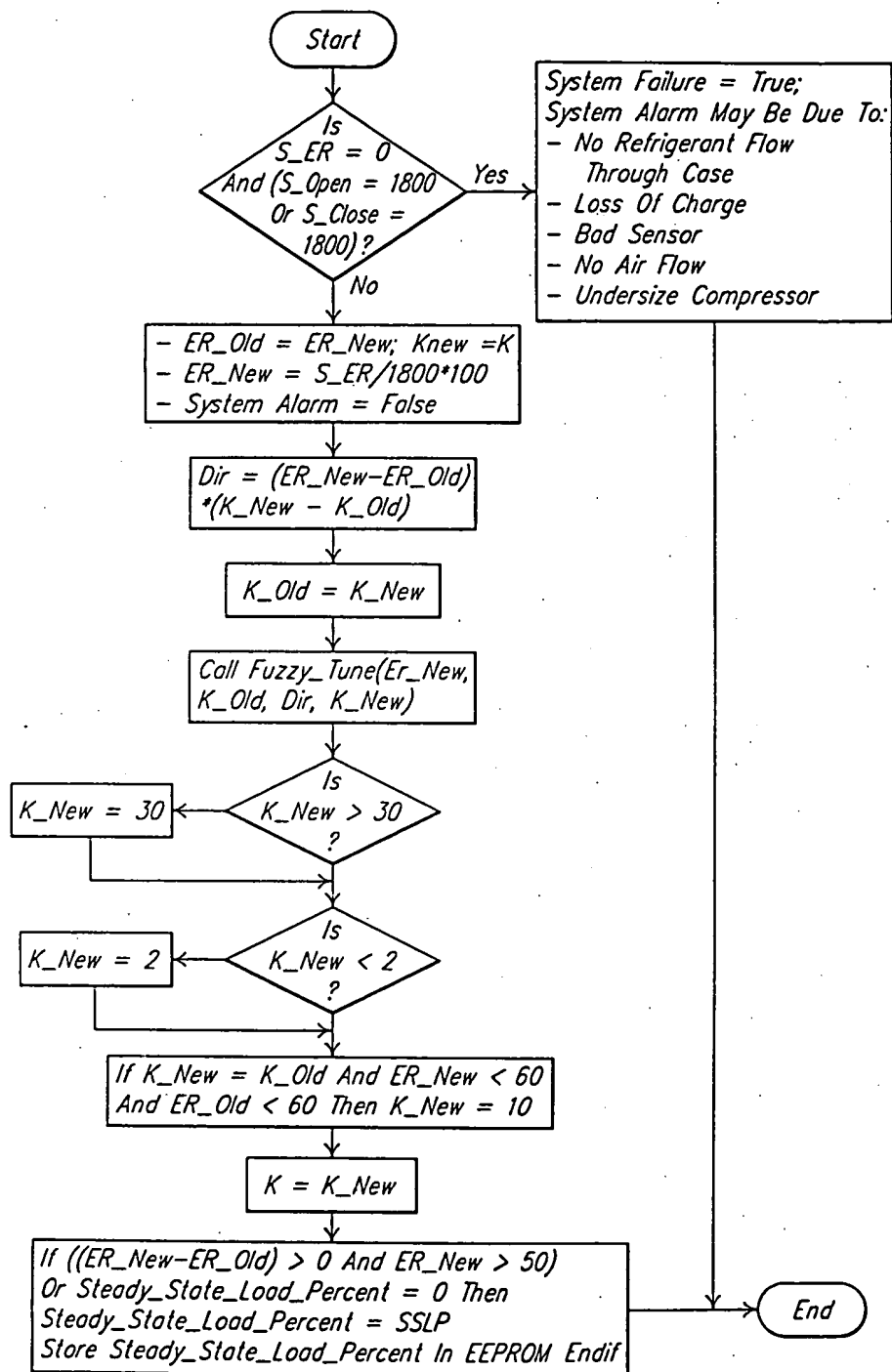
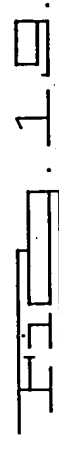


FIG. 15C.



Title: ADAPTIVE CONTROL FOR A REFRIGERATION SYSTEM USING
PULSE WIDTH MODULATED DUTY CYCLE SCROLL COMPRESSOR

Inventors: Hung M. Pham et al.

Atty. Ref.: 0315-000451/REK

16/16

	$DIR(I)$	1	2
$Er_new\% (J)$		Negative/Zero	Positive
1	Large	NC	NC
2	Medium	NSC	PSC
3	Small	NBC	PBC

FIG. 20.

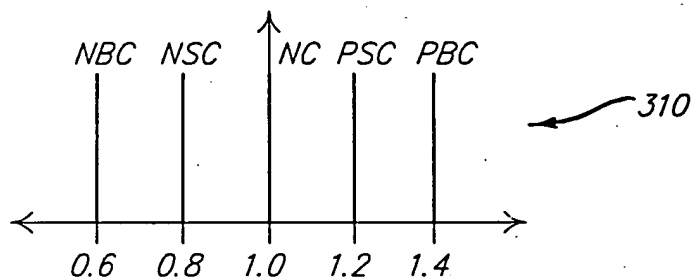


FIG. 21.

